Thermal Camera System Parts List				
Part #	**Manufacturer**	**Description**	**Unit**	**Qty**
427-0030-29-00	FLIR	FLIR Camera - F612	Ea.	1
1730	Pelican Case	Hard Transport Box w/foam for Camera	Ea.	1
4119507	FLIR	Camera wall mount	Ea.	1
JB/BP181608	Adalet	Junction Box w/ back plate	Ea.	1
4130848	Video IQ	Video processor, 4 Channel bridge, 40 GB	Ea.	1
MBR1515L	Netgear	4G LTE Mobile Broadband Wireless router, Verizon Wireless compatible	Ea.	2
DR120-24	Mean Well	Power supply	Ea.	1
STL-Wall-SD	Safeguards	Adjustable wall mounting saddle, 15” x 8” x 13”	Ea.	1
ST-06	Defiant	6-Outlet Power Strip	Ea.	1
G3X2LG6	PANDUIT	Slot Wiring Duct	Lot	1
3034181	Coleman	Ethernet cable	Feet	100
993253	Coleman	Coax Cable RG-59U + Power cable	Feet	100

Additional Camera and Accessories Parts List				
Part #	**Manufacture**	**Description**	**Unit**	**Qty**
427-0030-53-00	FLIR	FLIR Camera - F625	Ea.	1
1730	Pelican Case	Hard Transport Box w/foam for Camera	Ea.	1
4119507	FLIR	Camera wall mount	Ea.	1
STL-Wall-SD	Safeguards	Adjustable wall mounting saddle, 15” x 8” x 13”	Ea.	1
3034181	Coleman	Ethernet cable	Feet	100
993253	Coleman	Coax Cable RG-59U + Power cable	Feet	100

Scope of Work

This requisition is for the purchase of a thermal camera surveillance system for the purpose of detecting illegal activities, primarily cable theft, in secured NYCT locations. Cable thieves entering a secure area (our system) will be captured by the video thermal analytics system, which will in turn send out text and e-mail alerts with attached video clips to alert NYC Transit and NYPD that cable theft may be occurring. The system will also provide short video clips of the alert and would also provide live feeds in real time to better evaluate if theft is occurring and the type of response required.

The vendor supplying material will provide a one-time training session at 130 Livingston St., Brooklyn, for designated NYCT staff. The thermal camera surveillance system is portable, and it is expected that following the training, NYCT personnel will be able to install and relocate the system as needed with no further vendor intervention. The training will instruct attendees on how to install the camera, install and remove lenses, correctly set up and test equipment, and troubleshoot system errors. During this training, it is expected that the vendor will physically handle parts of the surveillance system for the purpose of demonstrating system features or configurations.

All equipment will be enclosed in sealed/contained units not affected by weather or airborne contaminants. Camera is rated for operation in outdoor conditions. The transmitting junction box is currently designed to be sealed from water but is not rated for use in outdoors in freezing temperature conditions. Because the distance from the camera to the transmitting junction box can vary, NYCT can place the junction box at an indoor location to ensure proper system functioning.

Warranty Requirements:	
Overall system (all parts and components)	1 year from delivery date
Camera unit (excluding thermal imaging core)	3 years from delivery date
Camera thermal imaging core	10 years from delivery date
Thermal analytics processing system	2 years from delivery date

Salient Characteristics for Thermal Camera Surveillance System

The thermal camera surveillance system will be a self-contained unit capable of operating on 120VAC, including the parts listed below. System will include a WiFi or cellular connection for the purpose of transmitting alerts. A separate external camera will be installed via a cable running to the self-contained unit. Both cameras must be able to be integrated into the same video IQ processor. Vendor must assemble all equipment together in a junction box enabling equipment to be deployed quickly in the field. Vendor to provide initial installation instructions and training for NYCT designated personnel.

Evaluation of Alternate Products

Prior to award, alternate products will be required to undergo a Site Acceptance Test to evaluate the system's capabilities of meeting required functions under realistic conditions.

System to include:

• Thermal Camera, 50 mm focal length, 640x480, NTSC
  ○ Lens to be pre-mounted in camera
  ○ Camera design must enable end users to replace the lens magazine while camera is in the field

○ 10-year detector warranty
• Hard Transport Box w/foam for Camera
• Camera wall mount
• Junction box w/ back plate, 19.62” x 17.61” x 8.82” (outside dimensions), hot compression-molded fiberglass reinforced polyester (thermoset) rated to NEMA Type 1, 3, 4X, 6P, 12.
• Video processor, 4 Channel bridge, 40 GB
• 4G LTE Mobile Broadband Wireless router, Verizon Wireless compatible
• 120 VAC to 24V DIN Rail Mount Power supply
• Adjustable wall mounting saddle, 15” x 8” x 13”, Manufactured from powder-coated steel
• 6-Outlet Power Strip
• G-Type Slot Wiring Duct, 17mm x 15.2mm, PVC
• Ethernet cable, 100 ft.
• Coax cable RG-59U, 100 ft. and Power cable, 100 ft.

Additional camera and accessories to include:

• Thermal Camera, 25 mm focal length, 640x480, NTSC
  ○ Lens to be pre-mounted in camera
  ○ Camera design must enable end users to replace the lens magazine while camera is in the field

○ 10-year detector warranty
• Hard transport Box w/foam for Camera
• Camera wall mount
• Adjustable wall mounting saddle, 15” x 8” x 13”, Manufactured from powder-coated steel
• Ethernet cable, 100 ft.
• Coax cable RG-59U, 100 ft. and Power cable, 100 ft.